

SPRG (Surfaces) and PRG (Soil & Water) Calculator Results at the 1×10^{-4} Risk Level
Calculated 26-Feb-2016

Radionuclide	Surfaces dpm/100 cm ²		Soil pCi/g		Water pCi/L
	Equipment & Waste	Structures	Construction Worker	Residential	Equipment & Waste
Americium-241	381840	381840	5.19	4.70	33
Cesium-137	21201	21201	10.1	4.66	119
Cobalt-60	13165	13165	5.37	3.19	259
Europium-152	14319	14319	6.38	3.76	642
Europium-154	17605	17605	7.74	4.52	396
Hydrogen-3	--	--	7.74	4.26	1370
Plutonium-239	--	--	1360	3.57	25
Radium-226	5505	5505	2.33	0.63	0.044
Strontium-90	541680	541680	998	6.39	46
Thorium-232	--	--	4.72	0.35	2.9
Uranium-235	62160	62160	34	4.75	46

NOTES: ^aThe estimates for Surface PRGs are taken from the SPRG Calculator using default values for the 3-D direct external exposure indoor worker scenario. Requirements for building structure surfaces and for equipment & waste surfaces are taken to be the same, as per U.S. NRC Regulatory Guide 1.86 *Termination of Operating Licenses for Nuclear Reactors* dated June 1974 and reviewed December 2011.

^bThe estimates for Soil PRGs are taken from the PRG Calculator using default values for the outdoor worker and residential scenarios.

^cThe estimates for Water PRGs are taken from the PRG Calculator using default values for the residential scenario. Generally, MCLs for drinking water are preferred values for water.

^dBy agreement between the Navy and EPA Region 9 the remediation goal for soil is 1.0 pCi/g.